

**Automatic Pick Counter  
FX 3250 PICK COUNTER**



## SCOPE

The TEXTEST FX 3250 Automatic PICK COUNTER is used for fast, convenient and accurate determination of the thread density of woven fabrics and wire meshes as well as the loop density of knitted fabrics.

The instrument has a measuring range of 8 through 300/cm (20 through 762/in).

The instrument is equally suitable for measurements in the

## FUNCTION

For testing, the face of the instrument is placed onto the test specimen. After manually entering the search range in which the test result is expected to fall, the start button is pressed. By means of a high quality lens system a narrow line of the test specimen is projected onto a linear CCD array. The signal from the CCD array is processed by a micro processor, and after less than a second the average thread density of the test specimen is digitally displayed.

A special illumination system eliminates the interfering effects of colors and patterns. Therefore, even colored and patterned test specimens deliver a perfect test result.

## EVALUATION OF THE TEST RESULTS

The simplest method for evaluation of the test results is to read the test results from the digital display, to write them down and to evaluate them manually.

In order to eliminate all reading, writing and calculating tasks and related errors, the instrument can be connected to the Strip Printer L 5130 MINIPRINT, which documents the test results, including statistical analysis, on a 57 mm (2.25") wide strip of paper (see adjacent picture).

Alternatively, the PICK COUNTER can be connected to a PC or Laptop computer with the Evaluation Program L 5110 LABODATA III. The PC prints a comprehensive test report, including statistical analysis of the test results (see separate picture). In addition, it stores the test results on the hard disk and performs long-term evaluations based on various selection criteria.

Up to five different TEXTEST instruments can be connected to the PC at the same time. The test results from these instruments can be processed *simultaneously* and documented together on the same test report. Thus, the Evaluation Program L 5110 LABODATA III turns the PC into a complete data processing system for the testing laboratory.

laboratory and mobile applications in the production environment. Since the instrument also works at moving test specimens, measurements can be taken directly at the running production machine or loom.

Its handy size and its ability to determine even extremely high thread densities, make the instrument a state-of-the-art alternative to the traditional pick glass and interference template.

Because of its small size and light weight design the instrument is perfectly suited for mobile use.

For stationary operation in the laboratory the instrument may be mounted to the optional FX 3250-MT Stand.

The instrument is equipped with a RS 232 data port.

The instrument can be calibrated and is supplied with an ISO conform calibration certificate. Also supplied is a calibration card for instantaneous verification of the proper function and calibration as well as for re-calibration of the instrument.

### THREAD DENSITY

ID:	
Length:	29 mm
Test mode:	STD
Range:	65-86 /cm
Instrument:	FX 3250
S/n:	923
Date:	25.6.2006
Time:	13:10
Operator:	
1:	72.2 /cm
2:	69.7 /cm
3:	70.0 /cm
4:	69.7 /cm
5:	71.2 /cm
6:	71.4 /cm
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Avg:	70.7 /cm
Min:	69.7 /cm
Max:	72.2 /cm
CV :	1.5 %
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Test report, printed with the  
Strip Printer L 5130 MINIPRINT  
(original size).

## TECHNICAL SPECIFICATIONS

- Measuring range: 8 through 300 threads/cm (20 through 762 threads/in), divided into 25 sub-ranges, each approx. 1:1.3 wide
- Units of measure: 1/cm and 1/in
- Measuring accuracy: better than  $\pm 1\%$  of the displayed value
- Test modes: "STD" (standard test mode)  
"WAL" (for wales in knit wear)  
"DBL" (for double-faced fabrics, double pick fabrics and 2/2 twills)  
"R=5" (for fabrics with a repeat of 5)
- Test length: 29 mm (1.1 in)
- Computing time: less than 1 second
- Data port: RS 232 C, asynchronous, bi-directional
- Power requirements: 2 batteries 1.5 V, size AA
- Battery life time: approximately 2,000 tests
- Dimensions (w x d x h): 66 x 32 x 128 mm (2.6 x 1.25 x 5 in)
- Weight: 200 g.

The instrument is supplied with as an ISO conform calibration certificate. Also supplied is a calibration card

for instantaneous verification of the proper function and calibration as well as for re-calibration of the instrument.

## ACCESSORIES

For the FX 3250 Automatic PICK COUNTER the following accessories are available:

### **FX 3250-MT Stand**

For stationary operation of the PICK COUNTER in the laboratory.

Dimensions: width: 17 cm (6.7"), depth: 61 cm (24"), height: 23 cm (9").

### **FX 3250-ARH Alignment aid**

For measurement of extremely fine test specimens with a yarn density over approximately 100/cm (250/in).

### **FX 3250-EU Power adapter EU**

For a line voltage of 90 through 264 V, 50 through 60 Hz, with EU connector.

### **FX 3250-GB Power adapter GB**

For a line voltage of 90 through 264 V, 50 through 60 Hz, with UK connector.

### **FX 3250-US Power adapter US**

For a line voltage of 90 through 264 V, 50 through 60 Hz, with US connector.

### **L 5130 Strip Printer MINIPRINT**

For documentation and statistical analysis of the test results from various TEXTEST instruments on a 57 mm (2.25") wide paper strip.

### **L 5110 Evaluation Program for PC LABODATA III**

Program for documentation, statistical analysis, storage, and long-term evaluation of the test results from various TEXTEST instruments by means of a PC.

### **FX 3250-KAB Data cable**

For transmission of the test results from the FX 3250 PICK COUNTER into a PC or L 5130 Strip Printer.